



Shantou Huashan Electronic Devices Co.,Ltd.

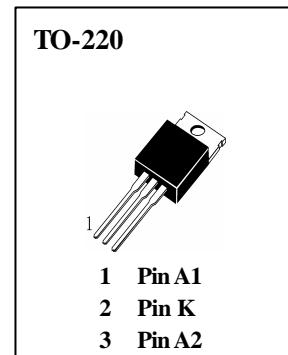
HKP2060CT

20A SCHOTTKY BARREIER RECTIFIER

Features

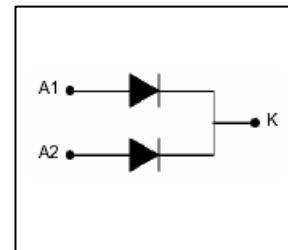
- **20 Amps Total (10 Amps Per Diode Leg)**
- **Guard Ring Die Construction for Transient Protection**
- **Low Power Loss,High Efficiency**
- **High Surge Capability**
- **High Current Capability and Low Forward Voltage Drop**
- **For Use in Low Voltage,High Frequency Inverters,Free Wheelings ,and Polarity Protection Applications**

Package



Maximum Ratings

- **T_{stg}**—Storage Temperature..... -55~175
- **T_j**—Operating Temperature..... -55~150
- **V_{RRM}**—Peak Repetitive Reverse Voltage..... 60V
- **V_{RWM}** — Working Peak Reverse Voltage..... 60V
- **V_R**—DC Blocking Voltage..... 60V
- **V_{R(RMS)}** —RMS Reverse Voltage..... 42V
- **I_{FAV}**—Average Rectified Output Current@T_c=125 Double Dies 20A
(Note 1) Single Die 10A
- **I_{FSM}**—Non-Repetitive Peak Forward Surge Current(60Hz)..... 150A



Electrical Characteristics @ T_a=25 unless otherwise specified

Single phase,half wave,60Hz,resistive or inductive load.

For capacitive load,derate current by 20%.

| Characteristic | Symbol | Min | Max | Unit | Condition |
|--|-------------------|-----|------------------------------|------|--|
| Forward Voltage Drop(Note 1) | V _{FM} | | 0.85 0.75 0.95 0.85 | V | I _F =10A,T _C =25 I _F =10A,T _C =125 I _F =20A,T _C =25 I _F =20A,T _C =125 |
| Peak Reverse Current at Rated DC Blocking Voltage | I _{RM} | | 0.1 15 | mA | V _R = V _{RRM} T _C =25 T _C =125 |
| Typical Junction Capacitance(Note 2) | C _j | | 650 | pF | |
| Typical Thermal Resistance Junction to Case(Note 3) | R _{th-j} | | 2.0 | /W | |

Notes: 1. Pulse Test: Pulse Width = 300 ms, Duty Cycle 2.0%.

2. Measured at 1.0 MHz and Applied Reverse Voltage of 4.0V DC.

3. Thermal resistance junction to case mounted on heatsink..



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PERFORMANCE CURVES

